



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52146

Entry Year 2022

Acreage: 1,782

County Cheboygan

Management Area: Chandler Hills

Revision Date: 2020-04-27

Stand Examiner: John Scheele

Legal Description:

T33N - R03W Sections 19, 30, and 31.

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and topography:

Common soil series found in this compartment are Kalkaska Sand, Rubicon Sand, Mancelona Sand, Cheboygan Loamy Sand, Emmet Sandy Loam and Blue Lake Sandy Loam. The soil types transition from sandy soils in the south to more loamy sands and sandy loams in the north. Topography ranges from flat to very hilly with some steep slopes of 50 to 60 percent.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

Compartment is completely state ownership except for approximately 80 acres in the southwest corner of the compartment. Private ownership is present along the west, south and southeast boundary lines of the compartment.

Unique Natural Features:

No known occurrence.

Archeological, Historical, and Cultural Features:

One documented archeological occurrence is located within the compartment.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

This compartment is north of Standard Lake, and the West Branch Sturgeon River is east of the compartment. Proposed treatments appear to be appropriate for the protection of these waterbodies.

Wildlife Habitat Considerations:

Hardwoods, aspen, and upland openings should be managed in a way that provides opportunities for wildlife-related recreation like hunting and bird watching. American marten is known to occur in this area and marten habitat specifications should be included when harvests occur once they are developed.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located in the region, and there may be sand & gravel potential in the compartment. Antrim Shale gas production is occurring just outside the compartment to the west, south, and east, but no wells have been drilled within the compartment to date. While it is highly likely there is Antrim gas beneath the compartment, development potential is considered low at this time due to low natural gas prices. In addition, the compartment is located at the northern margin of the current extent of Antrim Shale development. The Antrim thins to the north and wells are generally less productive compared to wells to the south. There is no proven potential for production from any other known hydrocarbon-bearing formations in this area, and there is no active mineral leasing in the compartment. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

N. Charlevoix Road and Wilderness Road are 2 main seasonal roads within the compartment. Portions of both roads are also used as part of the Snowmobile Trail #765. There are also several two-track roads throughout the compartment which provide access.

Survey Needs:

A survey of the east boundary of Section 31 would be helpful when establishing treatment lines for Stand 27 and for future treatments. However, treatment boundary lines for the Stand 27 could be established without an official survey.

Recreational Facilities and Opportunities:

Snowmobile Trail #765 runs east and west through the northern third of the compartment and along the western edge utilizing Wilderness and N. Charlevoix Roads.

Fire Protection:

No major concerns with the current timber cover types.

Additional Compartment Information:

The following reports from the Inventory are attached:

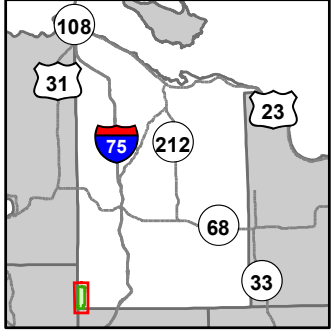
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

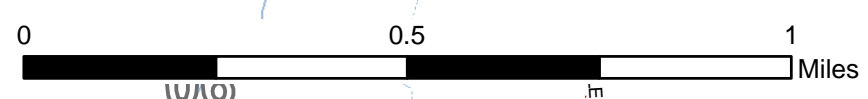
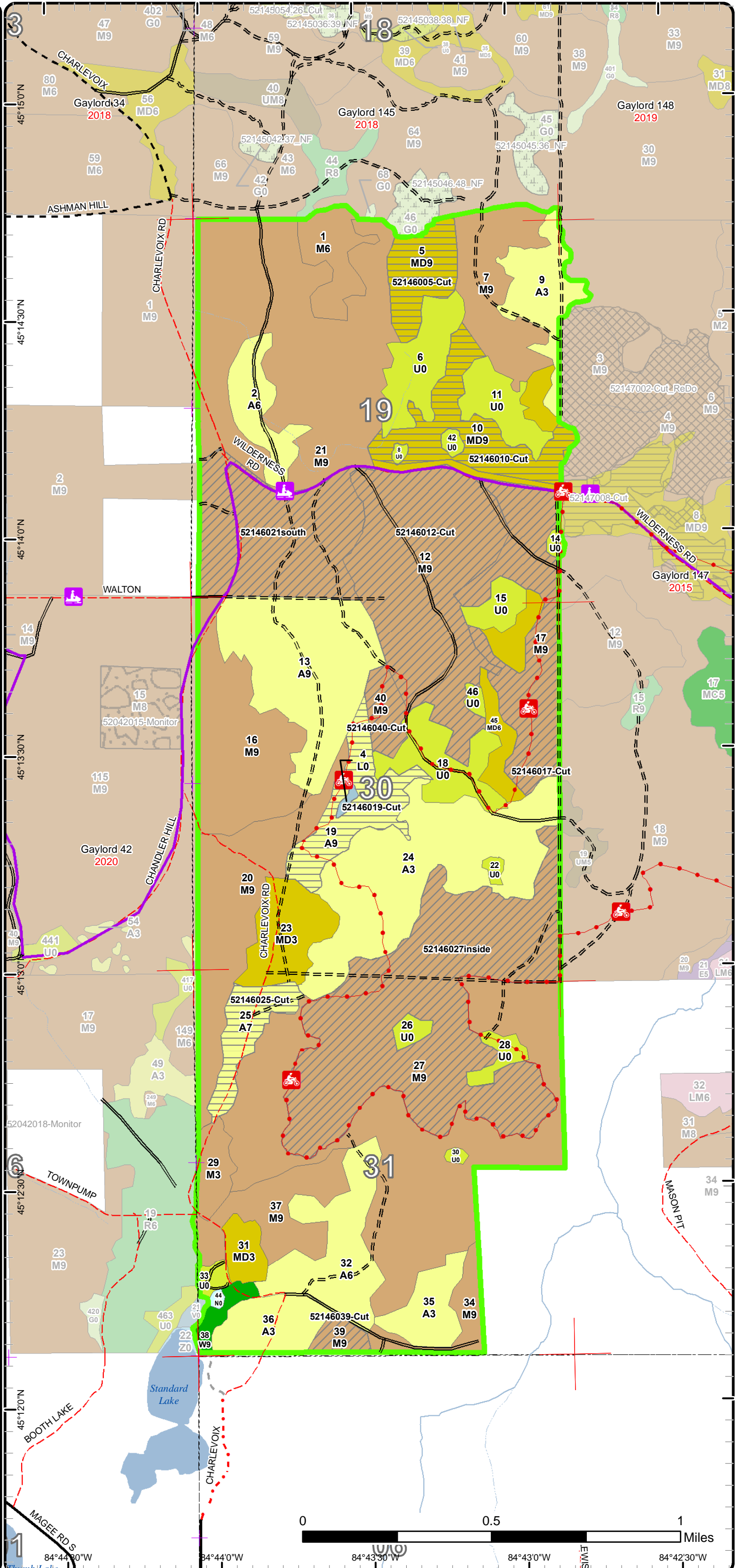
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 146
 T33N, R03W, Sec. 18, 19, 30, 31
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
 Acres: 1,782 GIS Calculated
 Examiner: John Scheele
 Map Revised: 11/20/2020
 Map Phase: Post-Review



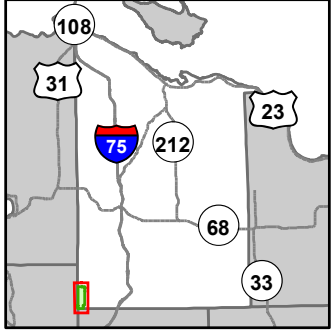
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🏍️ Motorcycle Trails (DNR License)
- 🏂 Snowmobile Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



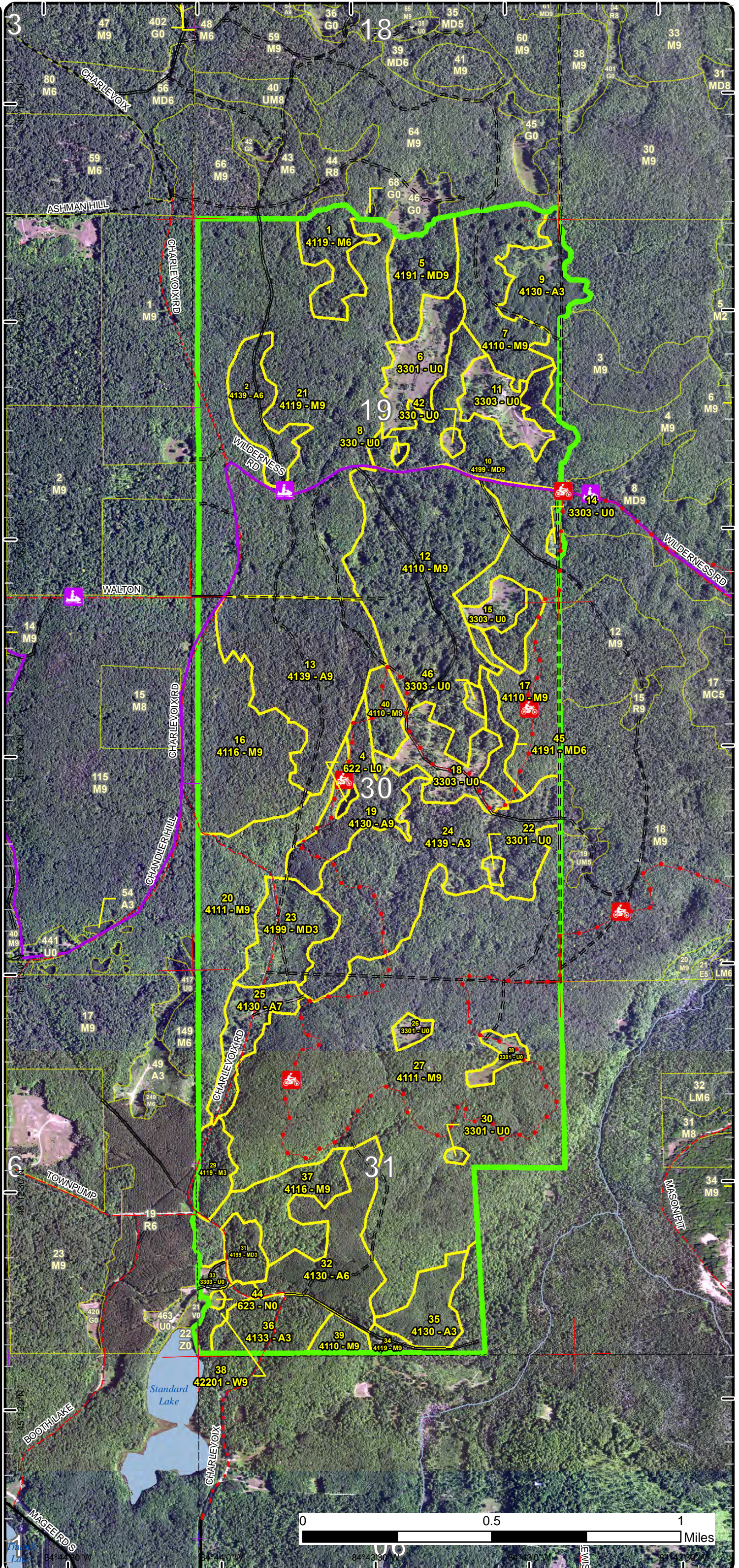
84°44'0"W 84°43'30"W 84°43'0"W 84°42'30"W

Stand Boundary Map

Compartment: 146
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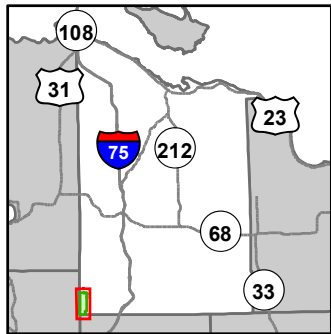
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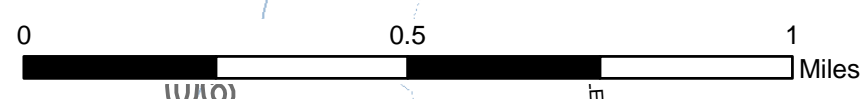
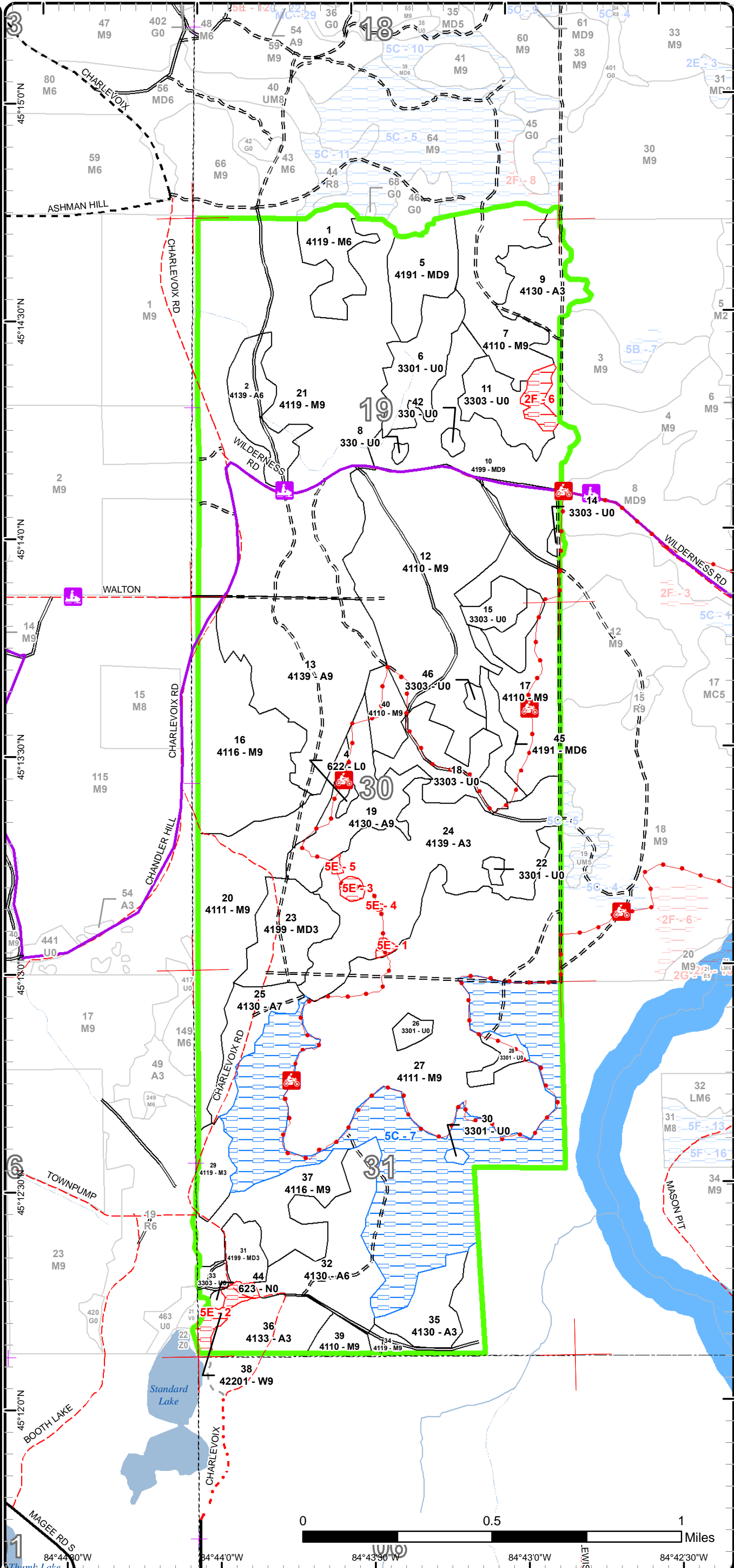
84°44'30" W 84°43'30" W 84°42'30" W 84°41'30" W 84°40'30" W

Special Conservation Areas

Compartment: 146
 T33N, R03W, Sec. 18, 19, 30, 31
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
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- Miris Corners
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- 🏂 Snowmobile Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



84°44'30"W 84°44'0"W 84°43'30"W 84°43'0"W 84°42'30"W

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	135	31	20	24	133	0	36	22	0	0	0	0	0	0	0	0	0	400
Low-Density Trees	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	11	31	0	0	0	0	102	0	0	0	0	0	0	0	0	0	0	144
Northern Hardwood	0	13	0	0	0	0	22	71	103	909	0	0	0	0	0	0	0	0	1117
White Pine	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Total	113	159	62	20	24	133	22	209	132	909	0	0	0	0	0	0	0	0	1781



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 146

Total Compartment Acres: 1,782

Commercial Harvest - 631
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	58	0	0	0	0	0	0	0	0	58
Mixed Upland Deciduous	69	0	0	0	0	0	0	0	0	69
Northern Hardwood	0	0	0	0	504	0	0	0	0	504
Total	127	0	0	0	504	0	0	0	0	631

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	631	0	0	0	0	0	0	0	0	631
Next Step	0	0	0	0	0	0	127	0	0	127
Total	631	0	0	0	0	0	127	0	0	758



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

5	52146005-Cut	25.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	60	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest to regenerate stand. Expand treatment area west and east up the steep slopes where mechanically possible. Possible retention</p> <p><u>Specs:</u> would be along the north boundary line adjacent to Stand 46. Access stand from the south across Stand 6.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well-stocked mix of aspen and deciduous species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
10	52146010-Cut	43.2	4199 - Other Mixed Upland Deciduous	Sawtimber Well	60	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest to regenerate stand. Leave any live elm for diversity. Also leave 1 to 2 of the large DBH White Pine trees per acre, especially along</p> <p><u>Specs:</u> the snowmobile trail for aesthetics and to discourage off-road access. Retention is established in northeast corner of stand where it is too steep to harvest. Access stand from the southwest corner. Include trail protection specifications when setting up sale.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well-stocked stand of aspen and deciduous species.</p> <p><u>Other Comment:</u> Leave 1/2 to a full chain of the stand behind guard rail to discourage illegal vehicle use. Use timber sale specs to further enhance the blockage attempts along the road and snowmobile trail.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
12	52146012-Cut	128.0	4110 - Sugar Maple Association	Sawtimber Well	80	141-170	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand surrounding the existing canopy gaps to approximately 80 BA. Cut all aspen and cherry species within low areas if possible.</p> <p><u>Specs:</u> Include recreation trail protection specifications in sale proposal.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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17	52146017-Cut	70.5	4110 - Sugar Maple Association	Sawtimber Well	64	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand to approximately 80 BA. Concentrate marking on the larger DBH trees and expand treatment boundary west into Stand 45
Specs: where applicable when setting up treatment area. Include recreation trail protection specifications in sale proposal.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

19	52146019-Cut	36.4	4130 - Aspen	Sawtimber Well	60	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Harvest stand to regenerate aspen. Leave any live elm trees if found during sale preparation for diversity. Possible retention may be placed
Specs: around the lowland shrub stand in the center of the stand. Include some White Pine in retention area. Included trail protection specifications during sale preparation.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Acceptable regeneration includes a moderate to well-stocked stand of Aspen and mixed deciduous species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

21	52146021south	86.1	4119 - Mixed Northern Hardwoods	Sawtimber Well	80	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand to approximately 80 BA. Include recreation trail protection specifications in sale proposal.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Could consider treating half of the stand (south) this YOE and half of the stand (north)next YOE
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
25 52146025-Cut	21.6	4130 - Aspen	Sawtimber Poor	75	Unspec ified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest stand to regenerate. Expand treatment boundary up the steep slopes in Stands 20 and 27 where mechanically possible to increase treatment area. Place retention in center of stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a poor to well-stocked stand of aspen and mixed deciduous species. A possible lower stocking level is acceptable due to the current canopy coverage.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
27 52146027inside	199.4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	80	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Thin stand to approximately 80 BA. Concentrate removal in the large DBH tree size. Leave any beech that is alive. Include recreation trail protection specifications in sale proposal.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Decided to treat primarily inside the Rec trail at review. Site condition will remain and a survey request will be created to facilitate future management.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
39 52146039-Cut	7.4	4110 - Sugar Maple Association	Sawtimber Well	71	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Mark stand to approximately 80 BA. Concentrate marking on the larger Sugar Maple and Basswood trees. May want to leave the far west part of stand because of the very steep slope.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
40 52146040-Cut	12.4	4110 - Sugar Maple Association	Sawtimber Well	71	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Thin stand to approximately 80 BA. Leave any White Pine and Aspen for stand diversity. Include recreation trail protection specifications in sale proposal.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment
Name

Acres

Stand
CoverType

Size
Density

Stand
Age

BA
Range

Treatment
Type

Treatment
Method

Cover Type
Objective

Age
Structure

Habitat
Cut

Total Treatment
Acreage Proposed: 630.8

Report 4 – Site Conditions

Gaylord Mgt. Unit
John Scheele : Examiner

Compartment: 146
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2F	5E
		With Condition	Not Available				
401	397	0	4	Aspen	0		4
111	111	0	0	Low-Density Trees			
1	1	0	0	Lowland Shrub			
1	1	0	0	Marsh			
143	136	0	7	Mixed Upland Deciduous		7	
1118	947	171	0	Northern Hardwood	171		0
7	0	0	7	White Pine			7
1,782	1,593	171	18	Total Forested Acres	171	7	11
	89%	10%	1%	Relative Percent			

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for Stand 24.							
2	Unavailable	5E: Long-Term Retention	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Retention for Stand 36 and First Prescription Sale (52-109-12-01)							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for Stand 24.							
4	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 24.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
John Scheele : Examiner

Compartment: 146
Year of Entry: 2022



5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for Stand 24.							
6	Unavailable	2F: Too steep	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Too steep for harvesting and represents retention for Stand 10.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	171	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
1	4119 - Mixed Northern Hardwoods	Poletimber Well	22.1	57	81-110	N/A	Poor quality site which is hilly in spots with some larger DBH basswood. Aspen is poor quality and dying. High density of ironwood in understory. A few natural openings with briar spp. White Pine was planted in 1929 at 200 trees/acre. BA is 90.																																																												
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2	4139 - Aspen, Mixed Deciduous	Poletimber Well	23.9	35	Unspecified	N/A	Some larger DBH aspen, basswood and Sugar Maple. Marginal aspen quality.																																																												
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4	622 - Lowland Shrub	Nonstocked	1.3	0	Unspecified	No																																																													
5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	25.8	60	81-110	N/A	Aspen is low quality and dying out. A few scattered, large DBH Basswood. White Pine is very multi-stemmed with high volume per tree. Topography is fairly hilly with a pocket of wet lowland in center of the stand.																																																												
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6	3301 - Low Density Deciduous Trees	Nonstocked	27.8		Unspecified	No	Relatively hilly and not flat.																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
7	4110 - Sugar Maple Association	Sawtimber Well	46.4	74	81-110	N/A	Regeneration gaps were established in 2004 through Pothole Contract sale 52-124-02. 14 of the gaps were planted with 10 oak saplings each in 2015 between Stands 7 and 12. Current openings have briar, ironwood and ash regeneration and a couple live oak trees. Remaining stand has decent quality hardwood with some nice Sugar Maple crop trees. White Pine is multi-stemmed and was planted in 1929 at 200 trees/acre. West side of stand becomes fairly steep. BA is 98.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		61	Log/Pole	10	74	Sugar Maple		Low	10 - 20 feet	Sapling	
Yellow Birch		2	Pole/Log	8		Beech		Low	10 - 20 feet	Sapling	
Basswood		20	Pole	8		Ironwood		High	10 - 20 feet	Sapling	
White Pine		15	Log/XLog	17	92	Blackberry/Raspberry		Low	5 - 10 feet	Tall Shrub	
Ironwood		2	Pole/Sapling	5							
8	330 - Low-Density Trees	Nonstocked	1.1	0	Unspecified	No	Topography is very steep. Stand is the bottom of a bowl.				
9	4130 - Aspen	Sapling Well	30.7	19	Immature	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		15	Sapling	4		Ironwood		Medium	5 - 10 feet	Sapling	
Bigtooth Aspen		68	Sapling/Pole	4	19	Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub	
Sugar Maple		10	Sapling	2							
Ironwood		5	Sapling	2							
White Ash		2	Sapling	4							
10	4199 - Other Mixed Upland Deciduous	Sawtimber Well	55.6	60	111-140	N/A	Poor quality, over mature aspen with a few larger DBH Basswood. Fairly hilly but operable. High concentration of aspen at the bottom of the hills with higher concentration of Basswood at top of hills. High volume in White Pine trees which were planted in 1929 at 200trees/acre.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		15	Pole/Sapling	7		Ironwood		High	>20 feet	Sapling	
Quaking Aspen		33	Log/Pole	11	60	American Elm		Low	>20 feet	Sapling	
White Pine		15	Log/XLog	17	92	Black Cherry		Low	5 - 10 feet	Sapling	
Basswood		30	Pole/Log	9		Sugar Maple		High	>20 feet	Sapling	
Black Cherry		2	Pole/Log	9							
American Elm		5	Sapling/Pole	4							
11	3303 - Mixed Low Density Trees	Nonstocked	19.3		Unspecified	No	Fairly hilly topography.				
12	4110 - Sugar Maple Association	Sawtimber Well	128.0	80	141-170	N/A	Regeneration gaps were established in 2004 through Pothole Contract sale 52-124-02. 14 of the gaps were planted with 10 oak saplings each in 6/2015 between Stands 7 and 12 (FTP-402). Current openings have briar, ironwood and ash regeneration and a couple live oak trees. There are a number of depressions throughout the stand that are natural canopy gaps with no trees. Remaining stand has decent quality hardwood with some nice Sugar Maple crop trees. White Pine is multi-stemmed and was planted in 1929 at 200 trees/acre. BA outside of current canopy gaps is 143.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		50	Log/Pole	10	80	Sugar Maple		Low	10 - 20 feet	Sapling	
Basswood		28	Log/Pole	10		Ironwood		High	10 - 20 feet	Sapling	
White Pine		5	XLog/Log	18	92	Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub	
Ironwood		5	Pole/Sapling	5		Red Oak		Low	10 - 20 feet	Sapling	
Black Cherry		5	Pole/Log	9		Black Cherry		Low	10 - 20 feet	Sapling	
American Elm		2	Pole/Log	9							
Quaking Aspen		5	Log/Pole	12							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
13	4139 - Aspen, Mixed Deciduous	Sawtimber Well	85.3	45	Unspecified	N/A	Variable DBH for aspen and maple from 6 to 12 inches. Some of the larger aspen does not look too healthy. Some nice Sugar Maple crop trees. There are a few scattered, larger DBH hardwood trees. Terrain is relatively flat to rolling. Stand may have been treated (clear-cut?) in 1974.																																																													
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14	3303 - Mixed Low Density Trees	Nonstocked	1.8		Unspecified	No																																																														
15	3303 - Mixed Low Density Trees	Nonstocked	9.6		Unspecified	No	Fairly rolling terrain.																																																													
16	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	69.3	80	81-110	N/A	This is a hardwood stand with variable DBH trees. Nice quality crop trees with a few larger DBH maple and basswood. Beech is dying out with beech scale. Scattered pockets of 45 year old aspen from past clearcut treatments. Sub-canopy is low in areas with smaller DBH trees. Fairly flat terrain.																																																													
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17	4110 - Sugar Maple Association	Sawtimber Well	70.5	64	111-140	N/A	Stand should be thinned. Nice quality Sugar Maple with a few larger DBH maple, basswood, and beech. Lots of pulpwood. Terrain is fairly flat. BA is 120.																																																													
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18	3303 - Mixed Low Density Trees	Nonstocked	28.9		Unspecified	No	Very rolling terrain. Tree species included cherry and White Pine.																																																													
19	4130 - Aspen	Sawtimber Well	36.4	60	Unspecified	N/A	Aspen quality is poor with some trunk rot. There is a low shrub, wet area in center of stand. Aspen transitions from Quaking to Big Tooth in south part of stand, which may have been cut in 1973. Relatively hilly to fairly hilly terrain. More White Pine in north part of stand which was planted in 1929 at 200 trees/acre.																																																													
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20	4111 - S.Maple, Hard Mast Association	Sawtimber Well	69.8	80	81-110	N/A	Marginal quality Sugar Maple with a high amount of multi-stemmed trees. Red Pine is mostly in the south part of the stand. Topography is rolling hills from east to west but is workable. There is a steep slope in the center of the stand. BA is approximately 108.																																																										
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21	4119 - Mixed Northern Hardwoods	Sawtimber Well	256.5	80	111-140	N/A	Nice crop trees with very variable DBH's. Aspen is over mature. BA is 128.																																																										
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22	3301 - Low Density Deciduous Trees	Nonstocked	1.9		Unspecified	No																																																											
23	4199 - Other Mixed Upland Deciduous	Sapling Well	30.6	11	Immature	N/A	A few Red Pine trees were left from former R9 stand which was harvested. RP left for structure and diversity.																																																										
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24	4139 - Aspen, Mixed Deciduous	Sapling Well	109.8	2	Immature	N/A	Stand was cut in 2017 as part of Prepostorous Mix 52-128-12-01. Regeneration is about 5 to 10 feet tall currently with pockets of lower regeneration which should fill in in the future. A few large DBH pine and Sugar Maple were left during harvest. Very rolling topography. Large pile of debris was left at landing from previous harvest.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25	4130 - Aspen	Sawtimber Poor	21.6	75	Unspecified	N/A	Pockets of aspen which are of poor quality. Few large DBH Sugar Maple and basswood. Canopy closure is closer to 50%.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	64	Log/Pole	10	75	Ironwood	Medium	>20 feet	Sapling
Black Cherry	15	Log/Pole	12		Maple (spp.)	Medium	>20 feet	Sapling
Red Maple	15	Log/Pole	11		Hawthorn (spp.)	High	10 - 20 feet	Tall Shrub
Basswood	2	Log	12		Cherry (spp.)	Medium	10 - 20 feet	Sapling
Sugar Maple	2	Log/Pole	16		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Ironwood	2	Pole	5					

26	3301 - Low Density Deciduous Trees	Nonstocked	4.1		Unspecified	No	
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27	4111 - S.Maple, Hard Mast Association	Sawtimber Well	369.4	80	111-140	N/A	Variable BA and quality within stand. Nice quality crop trees. Some larger DBH maple beech, and basswood trees throughout stand. Some of the beech is alive. BA plot ranges were from 113 to 120. Topography is flat to gently rolling and hilly.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	53	Log/Pole	12	80	Beech	Medium	10 - 20 feet	Sapling
Basswood	20	Log/Pole	13		Ironwood	High	10 - 20 feet	Sapling
Beech	10	Log	14					
Black Cherry	2	Log/Pole	11					
Bigtooth Aspen	8	Log	12					
Yellow Birch	2	Log/Pole	10					
Red Maple	5	Pole/Log	8					

28	3301 - Low Density Deciduous Trees	Nonstocked	6.7		Unspecified	No	
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29	4119 - Mixed Northern Hardwoods	Sapling Well	12.7	3	Immature	N/A	Stand was cut as part of First Prescription sale 52-109-12-01. Stand is on a steep, west facing slope.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Sapling	1		Blackberry/Raspberry	High	5 - 10 feet	Tall Shrub
Black Cherry	25	Sapling	1	3	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Red Maple	25	Sapling	1					
Sugar Maple	18	Sapling	1					
White Pine	2	Log	14					
Beech	10	Sapling	1					
Ironwood	5	Sapling	1					

30	3301 - Low Density Deciduous Trees	Nonstocked	1.3		Unspecified	No	
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31	4199 - Other Mixed Upland Deciduous	Sapling Well	10.6	3	Immature	N/A	Cut in winter of 2017 as part of First Prescription Aspen sale 52-109-12-01.																																																																					
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32	4130 - Aspen	Poletimber Well	48.0	43	Unspecified	N/A	A few scattered log-sized aspen. Fairly hilly. Leave for next YOE.																																																																					
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33	3303 - Mixed Low Density Trees	Nonstocked	4.0		Unspecified	No	Informal camping area not maintained by the DNR but commonly used next to Standard Lake.																																																																					
34	4119 - Mixed Northern Hardwoods	Sawtimber Well	16.1	80	51-80	N/A	Poorer quality maple with Balsam Fir understory. BA is relatively low and the topography consist mostly of up and down rolling hills. South part of stand is along a low drainage area. Lots of deer tracks. Property owner to the east is DeShare Investment 989-684-3601, 989-326-1895, or 989-686-8175.																																																																					
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35	4130 - Aspen	Sapling Well	20.4	23	Unspecified	N/A	Lots of deer tracks. 1 foot of snow during inventory.																																																																					
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36	4133 - Aspen, Mixed Pine	Sapling Well	24.7	3	Immature	N/A	Cut in 2017 as part of First Prescription (52-109-12-01) sale. Pockets of log-sized pine and oak species were left. Also some x-sized White Pine present. Fairly, to very hilly, terrain. Possibly more oak and pine should have been cut when last treated to get better aspen regeneration.																																																					
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37	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	37.1	75	51-80	N/A	Pockets of mostly aspen as well as pockets of mostly larger, poorer quality, multi-stemmed maple. Aspen is poor quality with some of the aspen breaking apart. Some of the aspen and maple is dying out. BA is 70.																																																					
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38	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	7.0	70	81-110	N/A	Variable White Pine DBH for 6 to 14 inches. Aspen is poor quality. Stand is retention for Stand 36 in First Prescription Sale (52-109-12-01) and as a vegetation buffer to Standard Lake. Currently there is running water along the south east edge of stand, onto Charlevoix Rd. and flowing east.																																																					
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39	4110 - Sugar Maple Association	Sawtimber Well	7.4	71	111-140	N/A	Fair to above average Sugar Maple quality. A few x-sized, multi-stemmed Basswood and Sugar Maple trees. There is a possible seep, or drainage, in the west part of the stand. BA is 111. Gas Company contact numbers are 231-941-0073, 231-549-1184, and 800-937-5748.																																																					
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40	4110 - Sugar Maple Association	Sawtimber Well	12.4	71	111-140	N/A	Good quality hardwood. Variable DBH from 6 to 14 inches. Fairly hilly with steep slopes including a steep-sided 'hole' along the west boundary line. BA is 136.																																																					
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42	330 - Low-Density Trees	Nonstocked	2.2	0	Unspecified	No	Very hilly. Bottom of a bowl.																																																					



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44	623 - Emergent Wetland	Nonstocked	1.1		Unspecified	No																																									
45	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	20.2	64	81-110	N/A	Young maple stand with large DBH White Pine that was planted in 1929 at 200 trees/acre. White pine is multi-stemmed from past weevil damage. Stand is on a west facing slope. More Sugar Maple along the east side of stand. BA is 93.																																								
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46	3303 - Mixed Low Density Trees	Nonstocked	2.3	0	Unspecified	No																																									